



18304 U.S. PTO
021104

Feeder EZ



Date: Oct 23rd 2003

Page 1 of 3

Company Name: Hang Tech

Principles of Company: Nathan Richard Dixon, Donny Judson Arsenault and Dennis Crowe

Information for patent on FEEDER EZ.

Concept Name or Title (FEEDER EZ, feeder hanging or suspension system)

Conception Date: November Of 2002

Inspiration: We were unsatisfied with the typical Game Feeder suspension systems currently on the market, which were not user friendly with respect to instillation time, number of people necessary to install and maintain as well as cost effectiveness.

What makes FEEDER EZ unique from other game feeder suspension systems currently available on the market?

(Other Systems) Examples What was done before

A. Tripod System (Bulky, Heavy, Time consuming to transport / Install, Difficult to fill/refill, barrel is held up off of the ground with three legs usually at a height of 6 to 8 feet)

B. Chain / Pulley System (Unable to support heavy loads, Could be hazardous, Difficult to install, barrel usually no heavier than 5 gallon bucket is pulled up over hanging branch of tree with a pulley system..)

C. Ground Troths (Can not control feeding times or amounts consumed by Game, Non cost effectiveness, Troth or large container is filled and left on ground for game to feed out of.)

D. Gravity Fed System (Can not control feeding times or amounts consumed by Game, Non cost effectiveness , Game can damage main body, feed is poured into a container that allows the product to travel down a tube into a feeding tray which is then replaced continuously as the game eats the Feed.)

Feeder EZ

Page 2 of 3

Improvements

FEEDER EZ is a unique system that is in (No Way) similar to any other feeder suspension system currently on the market. Our system is attached to the trunk of a tree and Hangs from a tree while supporting up to 300 lbs of feed in a 30 or 55 gallon drums.

- A. Feeder EZ is Installed in seconds (by one person) and ready to receive a barrel or grain holding Container within minutes, filled and operational within ten to fifteen minutes. The product is then dispensed by a timed throw system which is attached to the barrel for dispensing feed twice daily.
- B. Light weight and durable feeder suspension system.
- C. Extremely cost effective
- D. Feeder Ez hangs from a tree with a chain on the top of system and the weight of any Barrel and product the barrel contains creates its holding strength on the tree. The chain then digs into the tree.
- E. Diagrams and pictures have been provided.

Product Information , how it works and or Claims

This is a light weight durable single piece aluminum feeder hanging system to hold 30 to 55 gallon drums or comparable waste containers converted into feeder systems for the purpose of feeding and provide nutrition's to wild game and domestic animals.

Feeder Ez is hung simply by placing feeder Ez against a tree and wrapping the chain around the tree and attaching to the other end of the chain to the S Hook at its closest and tightest link the weight of feeder ez and the added weight of the barrel and its Grain or Feed it contains adds pressure to the chain and causes the entire setup to push into and downward on the tree thus locking the Feeder Ez into place. The weight limit that has been assessed to the Feeder Ez is well over 300 Lbs. All prototypes currently in use have been filled to this capacity and show no signs of stress to any parts of the Feeder Ez.

Research of similar products

What research was done to qualify that this Idea is not already available on the Market? Researched Patent archives, Internet , catalogs, and stores for similar systems as well as a combined history of over 55 years of hunting Experience and found none. There is no other system that operates on the principals of Feeder Ez.

Feeder EZ

Page 3 of 3

FEEDER EZ - Materials and how constructed

1. All Main Body parts consist of 60-61 Light weight Aluminum
2. Four inch Channel (1- Main Body Channel, 1- horizontal Barrel rest and 1- barrel retention support)
3. Two inch angle 2 x 2 x 1/4 " (1- Main body chain support and 1- horizontal weight distribution angle)
4. 1 1/2 x 3/8 flat bar (1-center barrel support and 2 -Barrel rest supports / tree spikes)
5. 1" x 5/16 " Steal counter sink bolts / nuts 14 each
6. 2 each 3/8" x 1- 1/2" steal eye bolts and nuts
7. 1- 4' section of double brad chain
8. 2" Steal S Hooks (2)

Parts List

Part #1 Part #10

Part #2 Part #11

Part #3 Part #12

Part #4

Part #5

Part #6

Part #7

Part #8

Part #9